STATEMENT OF WORK

FOR

MARITIME PATROL AND RECONNAISSANCE AIRCREW
TRAINING SYSTEMS

CURRICULUM REVISION AND MAINTENANCE

NAVAL AIR WARFARE CENTER
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1.   SCOPE

This Statement of Work (SOW) defines the requirements for revision and maintenance (R&M) of curricula for the operational support of United States Navy (USN) Maritime Patrol and Reconnaissance (MPR) aircrew and Air Combat Training System (ACTS) training programs. This effort is to provide training support of the USN Maritime Patrol and Reconnaissance Fleet Replacement Squadron (FRS) and Maritime Patrol and Reconnaissance Weapons School (MPRWS) training programs including Reserve and Foreign Military Sales (FMS) training support. The tasks required in this SOW are within the scope of the Training Data Products Contract (TDPC) Multiple Award contract Lot II, SOW 110023 paragraphs 1.c, Scope, and 3.2.2.3 Detailed Capabilities, Instructional System Development (ISD) Requirements Functional Area 3: Sustainment.

1.1   Background

Patrol Squadron Thirty (VP-30) at Naval Air Station (NAS) Jacksonville, Florida (FL) is the Maritime Training Model Manager for two distinctly different Type/Model/Series (T/M/S) aircraft weapons systems. These include the Lockheed P-3 family of aircraft and the Boeing P-8 Poseidon aircraft and weapons system. As such, VP-30 is responsible for the technical accuracy of all training materials being used at the FRS and MPRWS. This ensures instructional efficiency and effectiveness for the Maritime Patrol and Reconnaissance FRS Training Media and Materials System for both T/M/S platforms. The curriculum has been developed by contractor and military personnel to provide a comprehensive training program to satisfy the primary functions of the FRS. VP-30 is the USN FRS for the Fixed Wing Patrol (VP) and Fixed Wing Reconnaissance (VQ) assets operating the P-3 Orion, EP-3 Aries, and P-8 Poseidon aircraft. With contractor assistance, instructional programs have been developed and implemented for Maritime Patrol and Reconnaissance pilot and aircrew operators of these weapons platforms to include FMS and other Government agency personnel. These training programs are based upon FRS and MPRWS job tasks and have resulted in specific behavioral and Learning Objectives (LOs), lesson organization, media selection, and training support requirements. The FRS's mission is to provide initial and refresher training for pilot and aircrew personnel to become qualified to operate the aforementioned weapons platforms. Courseware focuses primarily on aircraft and weapons systems, associated operating procedures as defined by the Naval Air Training and Operating Procedures Standardization (NATOPS) program for the respective T/M/S (P-3/P-8) aircraft and their tactical employment. Between all platforms supported by the FRS, over 700 students matriculate through all programs annually.

1.1.1   MPRWS Background

The Weapons School is responsible for post-FRS training, applicable to VP crew positions as well as squadron and WING Intelligence Officers. In support of the VP Advanced Readiness Program (ARP) and general post-FRS training requirements, the Weapons School is tasked to:

a. Provide overall coordination, planning, and implementation of VP ARP.

b. Develop and maintain a comprehensive VP ARP syllabus and supporting training materials for use by Wing Weapons and Tactics Unit. An average of 77 ARP courses with 14 students per course are taught per year.

c. Update the VP ARP syllabus to ensure the latest tactical and weapons system recommendations are rapidly introduced and disseminated.

d. Validate ARP training during unit Squadron Advanced Tactical Training (SATT) coursework and Wing Weapons School Tactical evaluations (Operational Readiness Evaluation (ORE), etc).

e. Maintain and standardize the P-3/P-8 Qualification Syllabus (QS) material, Aerial Refueling qualification syllabus, Post FRS Triton training and Conventional Weapons Loading Courses (CWLCs)/Conventional Weapons Technical Proficiency Inspections (CWTPIs).

f. Conduct Maritime Patrol and Reconnaissance Intelligence Course (MPRIC) training.

1.1.2   <u>ACTS Background</u>

With contractor assistance, tactical instructional programs have been developed and implemented for USN MPR aircrew. These training programs are based upon fleet tactical job tasks for Fleet VP ACTS 200, 300, and 400 levels of aircrew training. The VP levels 200 through 400 ACTS Syllabus is known as the P-3, P-8, and EP-3 Qualification Standard [(P3QS, P8QS, and EP3QS) henceforth referred to as PQS]. This program has resulted in specific behavioral objectives, syllabi, media, classroom training materials, and sophisticated, highly interactive, classified, Sharable Content Object Reference Model (SCORM) compliant, Secret Internet Protocol Router Network (SIPRNet)-computer based courseware to be distributed from the ACTS servers at various locations via the "Sierra Hotel" Aviation Readiness Program Learning Management System (SHARP LMS). This state-of-the-art ACTS courseware is a single common training program providing worldwide PQS support to tactical crews operating the MPR aircraft. This ACTS SCORM courseware training program requires recurring operational and maintenance support in order to maintain currency and quality of the course materials as new tactics, operational procedures, and MPR doctrine are updated to meet new threats. The MPRWS manages approximately 250 lessons that are distributed to the MPR community via laptops and the Navy/Marine Corps Intranet (NMCI) SIPR. The MPR Weapons school is tasked to:

a. Provide overall coordination, planning, and implementation for VP ACTS training within the P-3 force, promulgated via the PQS.

b. Develop and maintain a comprehensive VP PQS syllabus and supporting ACTS SCORM courseware training materials for use by Wing Weapons Schools via the ACTS / SHARP LMS.

c. Update the PQS syllabi to ensure the latest tactical and weapons system recommendations are rapidly introduced and disseminated.

d. Provide quality assurance, direct, update and oversee the uploading and integration of ACTS courseware.

Electronic Training Jackets (ETJ) and SHARP LMS web support are provided by the ACTS network / SHARP LMS vendor under a separate contract. Laptops are the only way for the

aircrew to access ACTS courseware when operating outside CONUS in an expeditionary role (which consists of a six month period during each 12 month cycle for each squadron).

1.2   Training System Description

For planning purposes, the following information is provided which gives the current media inventory for the P-3 and P-8 training systems. The tables are arranged by hours and events for each crew position with event totals to summarize. TABLE I through TABLE III are in support of the P-3 syllabus and TABLE IV through TABLE VI are representative of the P-8 syllabus. The acronyms and abbreviations are defined in Appendix A. A detailed list of publications maintained by the contractor with Government input in support of the various P-3/8 training track syllabi are listed in Appendix B.

TABLE I.   P-3 Training Time in Hours by Crew Position

MEDIUM	PILOT	FE	NFO	AAW	NAAW	IFT
CAI (Instructor Guided Reviews)	2	101	16	14	4	33
CAI (Instructor Led Lessons)	339	468	613	270	193	418
CAI (Instructor Proctored Exams)	48	230	34	48	61	120
Documents - Aircraft Ground Device Sessions – (Instructor & Student Guides)	30	190	134	70	81	351
Documents – Flights (Instructor & Student Guides)	73	90	95	35	70	785
Documents - Lectures (Instructor & Student Guides)	17	58	36	45	8	0
Documents – Flight & Weapons Simulators (Scenario Instructor & Student Guides)	204	156	176	159	130	0
ICW (Non-Instructor Led CBT)	67	2	151	0	7	0
TOTAL	780	1295	1255	641	554	1707

TABLE II.   P-3 Training Events by Crew Position

MEDIUM	PILOT	FE	NFO	AAW	NAAW	IFT
CAI (Instructor Guided Reviews)	2	14	5	3	4	8
CAI (Instructor Led Lessons)	101	79	133	99	54	97
CAI (Instructor Proctored Exams)	37	86	16	11	27	15
Documents - Aircraft Ground Device Sessions – (Instructor & Student Guides)	9	10	40	14	22	38
Documents – Flights (Instructor & Student Guides)	29	18	16	7	14	15
Documents - Lectures (Instructor & Student Guides)	5	12	6	12	4	0
Documents – Flight & Weapons Simulators (Scenario Instructor & Student Guides)	51	39	42	46	52	0
ICW (Non-Instructor Led CBT)	49	1	52	0	2	0
TOTAL	283	259	310	192	179	173

TABLE III.   P-3 Training Event Summary

MEDIUM	Number of Events
CAI (Instructor Guided Reviews)	36
CAI (Instructor Led Lessons)	563
CAI (Instructor Proctored Exams)	192
Documents - Aircraft Ground Device Sessions – (Instructor & Student Guides and Gradesheets)	133
Documents – Flights (Instructor & Student Guides and Gradesheets)	99
Documents - Lectures (Instructor & Student Guides and Gradesheets)	39
Documents – Flight & Weapons Simulators (Scenario Instructor & Student Guides and Gradesheets)	230
ICW (Non-Instructor Led CBT)	104
TOTAL	1396

TABLE IV.   P-8 Training Time in Hours by Crew Position

MEDIUM	PILOT	NFO	AAW	EWO
CAI (Instructor Guided Reviews)	66	28	26	19
CAI (Instructor Led Lessons)	640	617	348.25	364.5
CAI (Instructor Proctored Exams)	35	75.5	45.5	45.5
Documents - Aircraft Ground Device Sessions – (Instructor & Student Guides)	38	68	52	56
Documents – Flights (Instructor & Student Guides)	399	158	106	111
Documents - Lectures (Instructor & Student Guides)	12	15	5.5	4
Documents – Flight & Weapons Simulators (Scenario Instructor & Student Guides)	705	527	404	345
ICW (Non-Instructor Led CBT)	232	248	144	155
TOTAL	2127	1736.5	1131.25	1100

TABLE V.   P-8 Training Events by Crew Position

MEDIUM	PILOT	NFO	AAW	EWO
CAI (Instructor Guided Reviews)	30	22	16	12
CAI (Instructor Led Lessons)	445	357	198	198
CAI (Instructor Proctored Exams)	31	29	24	20
Documents - Aircraft Ground Device Sessions – (Instructor & Student Guides)	12	18	13	14
Documents – Flights (Instructor & Student Guides)	48	18	12	13
Documents - Lectures (Instructor & Student Guides)	3	5	2	1
Documents – Flight & Weapons Simulators (Scenario Instructor & Student Guides)	153	120	106	83
ICW (Non-Instructor Led CBT)	29	31	18	22
TOTAL	751	600	389	363

TABLE VI.   P-8 Training Event Summary

MEDIUM	Number of Events
CAI (Instructor Guided Reviews)	80
CAI (Instructor Led Lessons)	1198
CAI (Instructor Proctored Exams)	104
Documents - Aircraft Ground Device Sessions – (Instructor & Student Guides and Gradesheets)	57
Documents – Flights (Instructor & Student Guides, and Gradesheets)	91
Documents - Lectures (Instructor & Student Guides and Gradesheets)	11
Documents – Flight & Weapons Simulators (Scenario Instructor & Student Guides and Gradesheets)	462
ICW (Non-Instructor Led CBT)	100
TOTAL	2103

1.2.1   Maritime Patrol and Reconnaissance Weapons School Syllabus Events

The syllabi supported by the Weapons School comprise special graduate level training in tactical Anti-Submarine Warfare (ASW), Anti-Surface Warfare (ASUW) Improvement Program (AIP), electronic and visual surveillance, and ordnance handling and familiarization. The MPRWS supports 209 P-3 academic and in-flight training courses per year. P-8 is currently being delivered to the U.S. Navy. It is expected that all P-8 curriculum will closely resemble the P-3 courseware quantitatively but be platform specific. Both T/M/S will need R&M under this contract after delivery to the Government. Current P-3 Curriculum events are summarized in TABLE VII below:

TABLE VII.   Weapons School Curriculum Event List

Course	Lessons, briefs, or products maintained	Format(s)
Advanced Readiness Program (ARP)	77	MS Office: Word, PowerPoint Adobe: PDF
Fleet Instructor Under Training (FIUT)	7	MS Office: Word, PowerPoint Adobe: PDF

Fleet Introduction Team (FIT)
    CNS-ATM, AIP+ C4ASW, BMUP+
    Link 16, JMPS
	39	MS Office: Word, PowerPoint
		Adobe: PDF

Maritime Patrol and Reconnaissance Basic Intelligence Course (MPRBIC)	30	MS Office: Word, PowerPoint Adobe: PDF
P-3 Qualification Standards (P-3QS)	7	MS Office: Word Adobe: PDF
Tactics Upgrade (TUG) Course	21	MS Office: Word, PowerPoint Adobe: PDF
Weapons Tactics Instructor (WTI) Course	28	MS Office: Word, PowerPoint Adobe: PDF
Air Combat Training System (ACTS)	246	Various formats SHARP/SHARP LMS

1.2.2   Learning Resource Centers

There are two FRS Learning Resource Center (LRC) complexes within VP-30: one for USN P-3 training (4 separate classrooms) and the second and smallest being dedicated to P-3 FMS training in Hangar 30. No LRC is connected to the Internet or SIPRNet, but ten NMCI SIPRNet drops are installed in room 271, P-3/EP-3 LRC. The P-8 LRC is located in the Integrated Training Center (ITC) directly across the street from VP-30's hangar and is maintained through a separate contract. There are 29 classrooms located in the ITC which will be utilized by FRS and MPRWS for instruction. These classroom computers and associated software and hardware are supported by separate contract. Maintenance and availability of non-computer related classroom aids (white boards, etc.) fall under the scope of this SOW.

1.2.2.1   P-3 LRC - Hangar 30 – Rooms 268, 269, 271, and 272

The Interactive Multimedia Instruction (IMI) system courseware configuration for this LRC is a 75-terminal, Pentium, Personal Computer (PC) network hosted on dual Central Processing Unit (CPU)/file servers running Windows 2000 Server software. VTN Technologies' OLE is the current Learning Management System (LMS) that is linked to a Defense Federal Acquisition Regulations Supplement Structured Query Language (SQL) Server database. Another server is running the Questionmark web-based test bank. Student and instructor workstations are connected to the servers through a series of switches. The authoring software for IMI lessons is Macromedia's Authorware and LSI's VENUS development engine. Lesson graphics are produced in 3-D Studio Max, Adobe Photoshop, Macromedia Flash, Animator Pro, Corel Draw,

Illustrator, and Rapid. Some content, including the Control Display Navigation Unit (CDNU) desktop simulator, Pre-Flight Planning System, and Over-the-horizon Airborne Sensor Information System (OASIS) were developed in C++.

1.2.2.2   P-3 Foreign Military Student LRC (FMSLRC) – Hangar 30 – Room 253

The IMI system courseware configuration for the P-3 FMSLRC is a 6-terminal Pentium PC network with dual CPU/file servers running Windows 2000 Server software and IBM Learning Management System v1.0 (2003 release) that is linked to a SQL Server database. Workstations are connected to the server through a single hub. The content on the FMS servers is a subset of the content hosted on the main P-3/EP-3 LRC. The authoring software for IMI lessons is Macromedia's Authorware. Lesson graphics are produced in 3-D Studio Max, Adobe Photoshop, Animator Pro, Corel Draw, Illustrator, and Rapid.

1.3   Government Furnished Resources

The Government will provide to the contractor current copies of all ISD and Weapons School documentation, student and instructor training materials, VP FRS/MPRWS Training Media and Materials System Quality Control Plan, and training systems management planning and operations documentation for the VP FRS/MPRWS Training Media and Materials System. Other Government resources to be provided include:

    a.   Copies of all Training Media and Materials System data previously developed as part of the R&M process. Included in this data is the latest listing of Government Furnished Property (GFP) to be placed in contractor custody.

    b.   Technical data and information related to VP operations and performance, such as NATOPS Manuals, tactical publications, maintenance manuals, and existing training materials.

    c.   Tactical information such as Tactical Manual (TACMAN), Fleet Lessons-Learned, After Action Reports, Tactical Memorandums (TACMEMOs), initiatives, message traffic and tactical training materials.

    d.   Student and instructor training materials, training systems management planning and operations documentation for the VP FRS/MPRWS. All VP FRS/MPRWS instructional content will be furnished on Government-owned hard disk storage medium as determined by VP-30 Contracting Officer's Representative (COR). The instructional content will be organized by training track to the extent practical.

    e.   Working office space for full-time contractor personnel. The Government reserves the right to change contractor office space if necessary and will provide the contractor with adequate and similar office space and SIPRNet access.

    f.   Access to on-base print facilities through Defense Automated Printing Service (DAPS), when available, and at contractor expense.

1.4   Reviews and Approvals

The Naval Air Warfare Center, Training Systems Division (NAWCTSD) Project Manager (PJM) will provide overall project coordination among NAWCTSD, Type Commanders, on-site CORs, and the contractor. The NAWCTSD PJM will inform the contracting officer concerning the acceptability or non-acceptability of all deliverables and tasks performed by the contractor based upon the Contractor's Progress, Status, and Management Reports (CPSMR) and the recommendations of the on-site CORs. Failure to provide a trained, nominated, and NAWCTSD

approved COR may result in suspension of service for that particular organization. NOTE: The NAWCTSD Procuring Contracting Officer (PCO) is the COR designation authority; commands may only nominate. The contract schedule will contain the latest list of the CORs by name and organization. The on-site COR will assist the NAWCTSD PJM in the technical administration of the contract performing the following functions:

a. Coordinate the contractor prepared CPSMR. The COR will recommend acceptance or rejection of the training data products that are delivered only to the on-site Government activity and are reported as delivered in the CPSMR.

b. Monitor the contractor performance in accordance with (IAW) the SOW, Management Oversight Performances of the Acquisition of Services (MOPAS), and Quality Assurance Surveillance Plan (QASP) documents. Coordinate with the contractor to establish, prioritize, and revise production schedules.

2. APPLICABLE DOCUMENTS

The contractor must abide by all applicable regulations, publications, manuals, local policies, and procedures listed in this SOW and in Section 2.1 Government Documents of the TDPC SOW. In the event of a conflict between documents referenced herein and the contents of this SOW, the contents of this SOW take precedence. Nothing in this SOW, however, supersedes applicable laws and regulations, unless a specific exemption has been obtained.

2.1 Government Documents

Department of Defense (DoD) and Department of the Navy (DoN) Security and Information Assurance (IA) Instructions, Manuals, and Handbooks

DODI 8500.2	-	Information Assurance (IA) Implementation, dated 6 Feb 2003
DODI 8510.01	-	DoD Information Assurance Certification and Accreditation Process (DIACAP), dated 28 Nov 2007
DOD 8570.01-M, Change 3	-	Information Assurance Workforce Improvement Program, dated 24 Jan 2012
DON DIACAP Handbook (Unnumbered)	-	DoN DoD Information Assurance Certification And Accreditation Process (DIACAP) Handbook series, dated 15 Jul 2008

(The above IA documents are available at http://navair.navy.mil/nawctsd/Resources/Library/IA/Index.cfm. The NISPOM is available at http://www.dtic mil/whs/directives/corres/pub1 html)

USN documents

OPNAVINST 3500 series	-	Readiness Report on Training Progress of Combat Aircrews, dated 1 Feb 2001
OPNAVINST 3710.7 series	-	Naval Aviation Training and Operations Procedures Standardization (NATOPS)
NTTP 3-22.1-Series	-	Tactical Employment Manuals
NTRP 3-22.2-Series	-	Technical Manuals

(Copies of the above documents will be provided by the Government upon request)

2.2   Non-Government Documents

American National Standards Institute (ANSI)/Institute of Electrical and Electronics Engineers (IEEE)

IEEE Std 12207-2008, 2nd Edition   -   Systems and Software Engineering – Software life cycle processes

(Copies of this document are available from www.ieee.org or IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854-1331.)

3.   REQUIREMENTS

3.1   General Requirements

The contractor shall provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items and non-personal services necessary to perform the R&M and support of all the Maritime courseware and supporting systems (i.e., Information Technology (IT) systems) as defined in this SOW, except for those items specified as GFP and services. The contractor shall revise and maintain the training programs to ensure currency of content based upon the Government Furnished Information (GFI). The contractor shall perform training system R&M with on-site technical validation and product review being provided by FRS/MPRWS pilot/aircrew Subject Matter Experts (SMEs) and Instructional Systems Specialists (ISSs). In addition to Government validated and recommended changes resulting from contractor quality control and external and internal analysis, the Government may direct changes resulting from weapons system changes, tactical publications, NATOPS manuals, local course rules, flight information publications, engineering change proposals and miscellaneous documentation. All products developed shall be compatible with current instructional materials and shall comply with the associated Contract Data Requirements List (CDRL) item. While standardization of instruction shall be a critical objective of training development, the unique characteristics and requirements of each user, FRS, and MPRWS shall be considered and included in each deliverable where appropriate. For the purpose of this delivery order, all days shall be measured as calendar days.

3.1.1   Technical and Management Work Planning

The contractor shall develop a detailed work plan identifying milestones, time phasing of each task, innovative approaches to improve productivity, and anticipated travel to fulfill contract requirements.   The contractor shall prepare the Technical and Management Work Plan (TMWP) IAW the CDRL.

3.1.1.1   Travel

Travel may be required; however, travel to be performed outside a 75-mile radius from the training site, shall be subject to approval by the COR. When travel requires SME participation the hours shall be counted as scheduled SME hours completed for the applicable site. Any additional travel requirements shall be handled as an over and above.

3.1.2   Risk Management

The contractor shall maintain a risk management process which identifies all risks and defines in detail how they will mitigate risks that might delay content quality and delivery. Identification of risk items and associated risk mitigation or avoidance shall require active participation at

every level of the project by both contractor and Government personnel. The contractor shall identify risks early and shall have the overall responsibility and accountability for risk management, to include both programmatic and technical risks. The contractor shall implement a process to collect and analyze metrics that quantitatively measure the development of risk in key areas and to identify problems in the project development life cycle as early as possible. The Courseware Configuration Control Board (CCCB) members shall have the responsibility to participate in risk management board activities. Risk identification may come from other sources, requirements and design impacts, lessons learned, earlier corrective actions, and action items. Once identified and approved as an item that requires further attention, the contractor shall capture and manage the risks, and assign a rating based on the probability of occurrence and the severity of outcome. Risk items shall remain visible until resolved. The contractor shall define, document, manage, and apply a risk management process IAW IEEE Std 12207-2008, section 6.3.4. The contractor shall report risk information, data, and analysis in the CPSMR cited in 3.1.10. Identified risks will be discussed during CCCB meetings and communicated during the regular In-Process Reviews (IPRs). For more detailed information on Risk Management and Integrated Product Teams (IPTs), refer to sections 3.1.1.2 and 3.1.1.3 in the TDPC SOW.

3.1.3   Change Requests

The contractor shall implement Government-initiated CRs as specified herein. All curriculum changes will be validated by the Government and submitted to the contractor for correction. Change is defined as any updates, enhancements, additions, deletions, substitutions, or modifications to the existing training system. Prioritization of CRs which are in existence at the time of contract award will be established by the on-site COR for input into the system. The Government will have 14 days for acceptance or rejection of contractor completed CRs. No response will constitute acceptance by the Government for the contractor to place CR corrections into the curriculum. A detailed list of all CRs in work will be categorized and made available for FRS training personnel, COR, and contractor viewing at all times. The contractor shall establish an electronic system for tracking CR acceptance and rejection rates, with a detailed definition for both, to allow the Government and contractor to monitor CR completion.

3.1.3.1   CR Categories

The complexity of changes, modifications, updates, and enhancements are divided into the six categories (CAT) as defined in the TDPC SOW. Each of the six categories of changes will divide further into the following product lines:

   a. Text-based intermediate products
   b. Digital arts: graphics and text
   c. Digital arts: video, audio, and photography
   d. Design changes
   e. Content insertion
   f. Software and architecture

3.1.3.2   Timeline for CRs

The contractor shall maintain currency by completing 100 percent of all CRs delivered on time with a due date during that reporting period. Only appropriate NATOPS Model Managers,

NATOPS Program Managers, or NATOPS Evaluators may initiate Urgent/Priority CRs. Additionally, each geographical site may designate one additional active duty aircrew to initiate Urgent/Priority CRs. The required completion time for CRs shall be as shown in TABLE VIII.

TABLE VIII. CR Completion Time

CR Categories	CR Priority	Completion Time*	Description
ALL	Urgent	7 days	Safety of Flight changes. Urgent interim changes notices to technical publications, issued by message or evaluation data indicating in-service curriculum materials contain defective instructions that, if followed, may result in injury or death as defined by OPNAVINST 3710.7 series. 100 percent of Urgent CRs shall be accomplished within this timeline.
ALL	Priority	14 days	Priority interim change notices to technical publications issued by message or evaluation data indicating that in-service curriculum materials contain defective instructions that, if followed, may result in damage to equipment as defined by OPNAVINST 3710.7 series.
CAT 1/2/3 (level A/B/C)	Routine	30 days	Text and digital art simple to medium complexity products.
CAT 4/5/6 (level A/B/C) CAT 1D/2D	Routine	60 days	Design Changes and Content Insertion requiring a simple to medium rework to the training/learning management system and high text and graphic rework levels.
Other	Routine	90 days	Media not falling into the categories determined above and agreed upon by the COR.

Note: Completion time is the number of calendar days the CR is in the contractor's possession beginning with CR assignment through Government final acceptance.

3.1.3.3   CR Submission

For each Government-initiated CR, the contractor shall cross-reference all courseware and instructional material for appropriate update to all occurrences. If CR category change is noted, the contractor shall submit additional recommended CRs to the Government for validation within 7 days. Databases created or maintained for LO cross reference shall be provided to the Government in a non-proprietary format, upon request. Change request tracking form will be provided upon contract award.

3.1.3.4   Common Courseware Analysis and Streamlining

The P-3/P-8 platforms have little in common with regard to aircraft and mission systems. However, there are several concept level lessons that are applicable to both platforms (i.e. oceanography). For all potential opportunities to streamline lessons between training tracks within the same T/M/S, the contractor shall minimize multiple common lessons and shall

streamline these lessons into singular products applicable across multiple platforms or syllabi (as appropriate) with Government approval of the identified lessons. The contractor shall prepare the Technical Report-Study/Services (Lesson Streamlining Report) IAW the CDRL. The following requirements shall apply:

    a. The contractor shall evaluate the Pilot and Aircrew syllabi when directed by Government and propose recommendations for lessons to be streamlined, along with rationale in a formal report suitable for presentation to the Government, by the end of the 2nd Quarter of the Base Year.

    b. For those lessons proposed by the contractor, and upon Government approval, the contractor shall alter existing lessons and/or create replacement lessons. The educational specialists representing the Model Manager from each affected T/M/S will review and approve all identified content from the new/altered lessons prior to incorporation. Target approval date will be the end of the 4th Quarter of the Base Year.

    c. Timeline for completion of streamline of lessons content shall be at contractor discretion, but no later than the end of Option Year 1 (assuming the next Option Year is executed), or 12 months after Government approval, whichever comes later.

    d. Upon completion of lesson streamlining, that lesson shall be included in the "common core" curriculum.

    e. All lessons shall incorporate all features listed in other sections of this SOW (i.e. compatibility with approved style guide, etc.).

3.1.4   Training Systems Quality Control

The contractor shall review and evaluate all training tracks and courses. The contractor shall conduct this effort continuously over the entire period of performance and discuss feedback with the COR in a timely fashion to institute corrective actions when needed.

3.1.5   Training Program Configuration Management

The contractor shall inventory, catalog, and maintain all curriculum materials described in 1.2 and document the baseline configuration of the training program courses in the Training Program Structure Document. This document will be used for life-cycle inventory and maintenance of all instructional media and academic support GFI. The contractor shall develop, and document in the Training Program Structure Document, a listing of all instructional media, which shall be sortable by file format, file size, edition date, applicable training track(s), and instructional mode such as IMI, Computer Aided Instruction (CAI), Instructor-led Computer Based Training (ILCBT) or as applicable for current format deliverable types associated with all courseware. For configuration management purposes, PowerPoint format is considered synonymous with CAI. Any legacy media listed as "Mediated Interactive Lectures" (MIL) shall be relabeled as CAI. The contractor shall use a Digital Content Management System and all current Advanced Distributed Learning (ADL) SCORM metadata tagging requirements shall apply. The contractor shall develop, maintain, and document in the Training Program Structure Document, Curriculum of Instruction (COI). The contractor shall prepare the Training Program Structure Document IAW the CDRL.

3.1.6   Workforce

The contractor shall have all key personnel either on-board at the training site or have signed letters of intent, qualified with security clearances, or with pending clearances, no later than ten working days prior to Contractor Start Date (CSD). Deviation from the contractor's proposed workforce will be documented in the first Contractor Performance Assessment Report (CPAR).

3.1.6.1   Contractor Support Personnel Requirements

The contractor shall provide on-site SMEs and staff with aircrew and pilot knowledge of specified Navy Maritime operational performance capabilities. Personnel shall have an understanding of security classification and mission sensitivity issues. The contractor support personnel shall include personnel of varying disciplines with required security clearances in place, providing immediate access to, and processing capability for, classified data and training products. The contractor personnel shall have the knowledge and skills necessary to verify that all information provided is handled, marked, and delivered IAW the requirements applicable to the classification level. The contractor shall possess the expertise and the workforce capability to revise and maintain previously delivered systems, including interactive courseware programs, as well as Power Point presentations and will have ready access to all required source material for these programs. The contractor shall provide manning to adequately meet the hours highlighted in TABLE IX for each platform to work CR issues only. The contractor shall not use these hours on other staffing or administrative requirements.

TABLE IX.   Subject Matter Expert Hours

SME Position	Task	SME hrs	Normal Window of SME hours (Mon-Fri)
Pilot	1A	36 HPW	NTE 9 HPD
	1B	108 HPW	0800-1630(8 hrs) NTE 27 HPD/3 SMEs at any one given time
	1C	144 HPW	NTE 36 HPD
	1D	216 HPW	NTE 54 HPD
NFO	2A	36 HPW	NTE 9 HPD
	2B	144 HPW	0800-1630(8 hrs) NTE 36 HPD/4 SMEs at any one given time
	2C	216 HPW	NTE 54 HPD
	2D	262 HPW	NTE 65.5 HPD

TABLE IX.   Subject Matter Expert Hours

SME Position	Task	SME hrs	Normal Window of SME hours (Mon-Fri)
AAW	3A	36 HPW	NTE 9 HPD
	3B	108 HPW	0800-1630(8 hrs) NTE 27 HPD/3 SMEs at any one given time
	3C	144 HPW	NTE 36 HPD
	3D	216 HPW	NTE 54 HPD
NAAW	4A	36 HPW	NTE 9 HPD
	4B	108 HPW	0800-1630(8 hrs) NTE 27 HPD/3 SMEs at any one given time
	4C	144 HPW	NTE 36 HPD
	4D	216 HPW	NTE 54 HPD
IFT/FE	5A	36 HPW	NTE 9 HPD
	5B	72 HPW	0800-1630(8 hrs) NTE 18 HPD/2 SMEs at any one given time
	5C	108 HPW	NTE 27 HPD
	5D	144 HPW	NTE 36 HPD
AAW/NAAW/EWO (ACTS)	6A	18 HPW	0800-1630(8 hrs) NTE 4.5 HPD
	6B	36 HPW	0800-1630(8 hrs) NTE 9 HPD/1 SME at any one given time
	6C	54 HPW	0800-1630(8 hrs) NTE 13.5 HPD
	6D	72 HPW	0800-1630(8 hrs) NTE 18 HPD
Pilot/NFO (ACTS)	7A	18 HPW	0800-1630(8 hrs) NTE 4.5 HPD
	7B	36 HPW	0800-1630(8 hrs) NTE 9 HPD/1 SME at any one given time

TABLE IX.   Subject Matter Expert Hours

SME Position	Task	SME hrs	Normal Window of SME hours (Mon-Fri)
	7C	54 HPW	0800-1630(8 hrs) NTE 13.5 HPD
	7D	72 HPW	0800-1630(8 hrs) NTE 18 HPD

3.1.7   Key Personnel

The following contract positions are designated Key Personnel and shall meet the stated SOW requirements.

    a. Site Manager
    b. Maritime Courseware Configuration Coordinator
    c. Subject Matter Expert
    d. Information Assurance Technician

3.1.7.1   Résumés

The contractor shall provide the Résumés for all key personnel. The contractor shall submit résumés to the PCO after contract award. Failure to address all SOW requirements may result in a delay in acceptance or rejection of key personnel, thus resulting in a possible deduction and an initial poor performance rating in the Contractor Performance Assessment Reporting System (CPARS) at the onset of CSD. The contractor shall provide Résumés for key personnel replacements or substitutions during the period of performance per Section H of the contract.

3.1.7.2   Site Manager (SM)

The SM shall reside at NAS Jacksonville, FL and be a prime contractor employee. SM duties include tracking and reporting, current status of all training system media masters, Computer-Based Training System (CBTS) data files, CRs, instructional materials, and proper operation of the supported electronic classrooms, student workstations and LRCs, LMS servers and their associated hardware, software, student stations, and courseware as covered in this SOW. The SM shall provide the necessary program management functions to include planning, controlling, leading, managing, resourcing, scheduling, and clerical support for the efforts as required and specified in this contract. The SM shall measure, monitor, and assess the progress of the work performed and costs incurred under the contract. The SM shall lead the team on large projects or significant segment of large complex projects. The SM shall analyze new and complex project related problems and creates innovative solutions involving finance, scheduling, technology, methodology, tools, and solution components. The SM shall be a senior member of management with ability to commit the firm and with extensive experience in training systems development. The SM shall be responsible for highest-level client liaison, and has the ability to secure necessary professional resources within the firm to meet requirements of project.

3.1.7.2.1   SM Experience

The SM shall have a minimum of twelve years experience, ten years professional experience in USN aviation training systems development, production, operation or support, including four years of program management. Three years demonstrated supervisory and managerial experience in aviation training systems instructional systems design. Each post-graduate degree is equivalent to three years experience (post-graduate study may be substituted for experience at the rate of three credit hours of study for three months of experience, up to 36 credit hours).

3.1.7.3   Maritime Courseware Configuration Coordinator

The contractor shall provide a Maritime Courseware Configuration Coordinator/Lead in support of the FRS and MPRWS. This position shall provide direct support for the receipt, R&M, and implementation of P-8 courseware into the training system. This position shall directly liaison with Commander Patrol Reconnaissance Wing Eleven (CPRW-11) Learning Center administration personnel and all associated contractors for all courseware deliverables to the Government. This includes handling and verification of all loading and proper operations of all courseware within the ITC. This position shall ensure that all simultaneous curriculum training requirements and resources are efficiently planned for scheduling during all training evolutions. This position shall additionally function as the training department's SHARP coordinator loading, updating, and maintaining the Master Course Schedule (MCS) for each syllabus and the associated master grade sheets for each training track within the syllabus module of SHARP and SHARP LMS. This position shall have a thorough understanding of FRS/MPRWS operations and training requirements for all training tracks. This requires an extensive knowledge of each COI, MCS, and all PQS/ACTS curriculum requirements. This position shall be available from 0730 until 1600 Monday through Friday.

3.1.7.4   Subject Matter Expert

The SME shall provide aviation expertise and high-level subject matter proficiency for work described in the SOW and advanced technical knowledge and analysis of highly specialized operational environment.

3.1.7.4.1   SME Responsibilities

The SME responsibilities shall include the following which shall be documented and tracked via the CR process as defined in SOW paragraphs 3.1.3.1 and 3.1.3.2:

   a.   Review curriculum, assess, and recommend improvements to the training program via the appropriate training management officials.

   b.   Attend required scheduled meetings and training (e.g., scheduling, standardization, phase head, safety systems working groups, Intelligence Updates, aircraft systems and weapons tactics briefings and conferences).

   c.   Update, modify, and maintain currency of curriculum to support platform specific training. Assess training, syllabus, and mission scenarios for effectiveness and recommend improvements to the training program to the Government.

   d.   Provide analysis of existing testing instruments and recommend changes to improve training baseline and measure proficiency of training objectives.

   e.   Review syllabi and recommend changes to the lessons based on NATOPS changes, engineering changes, Naval Aviation Technical Information Product (NATIP) changes, and

evolving mission area changes and other governing documents as determined by the Government.

f. Revise and maintain PQS ACTS SCORM courseware training content, for the ACTS/SHARP LMS (both the SIPR-based SHARP LMS and the ITC SHARP LMS system). All PQS ACTS SCORM materials will be designed to function correctly when accessed from ACTS servers via standard NMCI workstations configured in accordance with the most current NMCI Core Build.

g. Review MPR intelligence systems technology and ensure training materials and websites accurately reflect current systems and employment methodology.

h. Revise and maintain simulator scenario scripts. This shall include updating the orders of battle, flight paths, enemy and friendly reactions, threat platforms, time lines, integrated air defense systems, etc. Prior to scenario acceptance, verification and validation of all scenario scripting shall be performed. This effort will require coordination with Simulator (SIM) programmers as needed.

3.1.7.4.2 SME Experience

The P-3/P-8 /MPRWS curriculums R&M contractor shall provide SMEs with extensive knowledge of P-3/P-8 operational performance capabilities and complete understanding of P-3 /P-8 security classification and mission sensitivity issues. The SMEs shall have a minimum of two years' experience in the operation of the P-3/P-8 weapons systems within the last seven years, or have a minimum of two years' experience working on revision and maintenance of VP-30/MPRWS/ACTS courseware within the last five years.

a. Due to the current transition to the P-8, SME expertise is very limited for the P-8. As determined by the Government, experience requirements may be considered transferable between platforms for identical positions. Between the two weapons systems, five of the aircraft positions are common. These are Pilot, NFO, AAW, EWO/NAAW, and IFT. The P-3 FE position does not have a counterpart on the P-8.

3.1.7.4.3 SME Qualifications (DELETED)

3.1.7.4.4 Contractor SME Training

The contractor shall be responsible for SME training to adequately meet contract requirements. This includes any and all necessary training to assure SMEs are proficient in the understanding of the employment of the weapons platform.

3.1.8 Security and Information Assurance

The contractor shall safeguard all classified information and meet all Security requirements identified in the DD Form 254 and the IA requirements specified below. The contractor shall enforce these safeguards throughout the life of the contract including the transport and delivery phases. Work will be performed up to and including the Secret level.

3.1.8.1   Information Assurance System Certification and Accreditation Support

The contractor shall integrate, configure, verify, document, and deliver software and hardware products that satisfy IA controls as defined in DODI 8500.2 for a Mission Assurance Category (MAC) III, Classified system. The contractor shall support the IA certification and accreditation process IAW DODI 8510.01, the implementing guidance contained in the DON DIACAP Handbook, and coordinating instructions from the Local IA Authority (i.e., Information Assurance Manager). When required by the Local IA authority, the contractor shall provide IA certification and accreditation information per DON DIACAP Handbook.

3.1.8.2   Information Assurance Technician (IAT) Certification

The contractor personnel on-site performing System Administrator tasks shall comply with DOD 8570.01-M, Change 3, certification requirements for the appropriate IAT Level II. Contractor personnel on-site accessing a DoD system shall complete a System Authorization Access Request-N (SAAR-N) form OPNAV 5239/14. The contractor shall obtain and submit the SAAR-N forms to the COR before access is granted to the DOD system.

3.1.8.3   Information Assurance Sustainment

For the LRCs, the contractor shall implement the Physical IA controls defined under the Physical and Environmental Category as defined in DODI 8500.2 for a MAC III, Classified system. The contractor shall designate one or more (up to one per geographic site) DON Application and Database Management System (DADMS) Technical Points of Contact (TPOCs). Upon submission of a Non-Disclosure Agreement, and approval by the DADMS Help Desk, DADMS TPOC duties shall include: registration of contractor supported hardware and software, monitoring and reporting of Last Date Allowed (LDA) for all supported software applications, association by Unit Identification Code (UIC) for all supported software, and registration of new software or new versions of software. The contractor shall report all software applications coming due for renewal (LDA within six months), and make recommendations for upgrades, conversions, elimination, or alternate strategies.

3.1.9   Incurred Cost and Progress Reporting (DELETED)

3.1.10   Contractor's Progress, Status, and Management Reporting

The contractor shall measure, monitor, and assess the progress of the work performed and costs incurred under the contract. The contractor shall prepare the Contractor's Progress, Status, and Management Report IAW the CDRL.

3.2   Detailed Requirements

3.2.1   Conferences and Meetings

The contractor shall conduct and participate in conferences and reviews to be held at the Government facilities. Conferences and reviews will be co-chaired by a Government and contractor representative. The contractor shall be prepared to explain the reasoning, assumption, and methodologies in arriving at particular conclusions, recommendations, or alternatives in the accomplishment of the tasks required by the contract. The contractor shall have key personnel and support to facilitate the conference. The contactor shall prepare the Conference Agendas

and Conference Minutes IAW the CDRL. Except where noted herein, conferences and reviews shall be considered fulfilled when all of the following items are completed:

    a. A formal meeting has been conducted and the conference and reviews are presented to the Government.

    b. All action items requiring contractor response have been resolved.

    c. The Government has accepted the conference minutes.

3.2.1.1   Post-Award Meeting

The contractor shall attend and participate in a post award meeting that will be held in a location to be specified by the Government. The meeting will take place within 60 days after award of this contract. In addition, the purpose of the meeting will also include identification of Government and contractor POCs, Government Furnished Material/Information (GFM/GFI), and resolution of any other issues not addressed in the TMWP.

3.2.1.2   In-Process Reviews

The contractor shall participate in all IPRs as defined in the TMWP. The purpose of the IPRs shall be to facilitate the verification of the contract requirements, exchange information, and discuss the status of the project objectives and project changes. The specific locations, dates, and duration of the conferences and reviews shall be agreed upon between the Government and contractor PJM. All IPRs shall include the following topics:

    a. Previous action items - Review of the Government and contractor action items from the previous conference, using an action item list.

    b. Project schedules with major milestones delineated such as site surveys, conferences, and developmental status of any supporting or newly developed material, review percentages, design, and testing for each phase in support of the FRS.

    c. CDRL status report – contract status report

    d. IT equipment status

    e. Problem areas – Areas that have been problematic or areas requiring Government decision and resolution.

    f. Program risks

    g. New action items - Preparation and finalization of new action items as a result of conference discussions.

    h. Quality Control Results Brief per 3.2.3.

3.2.2   Courseware and Training Product Delivery Systems and Authoring Tools

The contractor shall maintain and deliver all materials (courseware, guides, surveys, tests, briefing documents, lesson plans, lectures, and any other training content) in its current format or as agreed upon by the COR. The contractor shall make recommendations to the CORs/Assistant Contracting Officer Representatives (ACORs), NAWCTSD PJM, and the Government for upgrades, improvements, and changes in training delivery format and supporting systems and software no later than six months prior to the expiration or required transition of a legacy format due to authoring tool or LMS obsolescence or similar reason (such as due to NMCI software transition, IA security compliance, DADMS expiration, supporting vendor termination of support for any reason, hardware obsolescence, operating system (OS) incompatibilities, and due

to periodic hardware refresh). Final approval of format will lie with Government. The contractor will make available the entire instructional course content (Computer Based Training (CBT) and CAI) on Digital Versatile Disk (DVD) for distribution to fleet squadrons, wings, and weapons schools. The DVDs shall play on NMCI and stand-alone computers.

3.2.2.1   Courseware Formats

Current courseware formats include a variety of source files as dictated in this SOW. Additionally, differing sub-source files often are combined into differing types of deliverable training courseware (i.e. Kreus interactive courseware may have associated picture files, audio files, spreadsheet files, and other associated files). The contractor shall maintain the courseware in its delivered state at CSD until converted on a separate effort. The contractor shall maintain a test package containing performance test items that simulate skill and cognitive performance expected in job tasks and written test questions for all IMI embedded questions. The contractor shall prepare, revise, and maintain all event summary write-up sheets or grade sheets for simulator and in-flight events. The contractor shall revise exams and develop new practice quizzes. Authoring tools and courseware formats shall not be changed without Government approval. The contractor shall make recommendations based on efficiency, effectiveness, instructional excellence or for significant training improvements that will benefit both the Government and the contractor.

3.2.2.2   Learning Management Systems

The contractor shall support and maintain the Government directed LMS software applications for use as a training delivery system, to include patch updates and all student and instructor support facilitation.

3.2.2.3   Style Guide

The contractor shall utilize the Government provided Style Guide for the courseware. No changes to approved conventions; such as background color, numbering, and fonts, shall be undertaken, unless requested by the contractor and approved by the Government. The contractor shall review all T/M/S curriculums each year for improvements to the instructional and educational quality, technical accuracy, and overall program acceptability.

3.2.3   Quality Control Surveys and Results

The quality control effort shall address both formative and summative activities to ensure the quality of revised and newly developed lesson materials. The contractor shall incorporate formative quality control procedures throughout the development process for new lessons and apply when appropriate whenever existing lessons requires major update or modification. The contractor shall accomplish the summative quality control processes through both internal and external quality control activities. The contractor shall provide internal quality control questionnaires to replacement, refresher, and conversion aircrew. The contractor shall use commercially accepted practices to develop a schedule to ensure that all lessons are evaluated during the period of contract performance. Within the internal quality control program, the contractor shall conduct test item analyses and student response summary data analyses. The contractor shall implement external quality control by obtaining data from graduates and Commanding Officers of receiving fleet squadrons. The data collection shall address the effectiveness of the training as well as soliciting input for modifications or improvements to the

curriculum. This task shall be a continuous effort conducted over the entire period of performance and shall involve the analysis of quality control data, the identification of instructional deficiencies based on the data analyses, and the preparation of revision specifications to correct the deficiencies. The contractor shall document the results of this task in the Technical Report-Study/Services (Quality Control Surveys and Results Report) IAW the CDRL, and shall prepare a brief summarizing the results of the quality control effort during the IPR conference.

3.2.3.1   Survey Process

The contractor shall use Zarca Survey Software as the tool to compile, analyze, and present results to the appropriate Training Department in graphical and text format. The contractor shall validate proposed survey instruments; notification emails addressee's and report requirements with the respective T/M/S Training Department. In addition, the contractor will enter student data into the Zarca software and generate Fleet Feedback (FFB) survey instruments based on timeframes specified by the COR. The contractor is responsible for user and sub-user account access, permissions on legacy FFB survey system, and maintaining the licenses. Equipment, software, and hardware purchases to facilitate paper or automated surveys shall be maintained by the contractor, and turned over to the Government. Until Zarca is fully implemented in platforms not currently utilizing Zarca, the existing system shall be maintained.

3.2.4   Curriculum Changes Traceability R&M

The contractor shall utilize Ontrack or a similar Government approved electronic system to allow the user (student or staff) to input, initiate, prioritize, categorize, and designate CRs from within the lesson. The contractor shall manage and apply a common process to accomplish traceability for all curriculum changes across all platforms utilizing the Government approved online tool that provides "cradle-to-grave" data and information on the operation of all CRs. The system shall be integrated with the contractor's configuration management, workflow, commenting, inspection, reporting, and analysis tools to support increased efficiency, effectiveness, and continual improvement. The contractor shall monitor, track, and report the status of all internally and externally submitted CRs utilizing an online automated system. This system shall be utilized to determine process inefficiencies, work flow interruptions, and to develop metric data to standardize configuration control, validation, and prioritization of submitted CRs. The results will be populated in Distributed Online Management System (DOMS).

3.2.4.1   CCCB Meetings

The contractor shall coordinate, attend, participate, facilitate, and lead CCCB meetings to be conducted monthly via Telcon/Webinar. CCCB meetings shall provide a forum suitable for maintaining a continuous interchange of ideas and issues, to identify and resolve potential problem areas, seek process improvements, interchange of innovative technical solutions, and lessons learned. Contractor shall be responsible for all logistics requirements. The agendas shall be developed by the contractor and the CCCB telcons/meetings shall be documented in conference minutes and project/initiative action/task tracker, as cited in 3.2.1. Meetings will be held at a mutually agreed upon date and time. At no time shall the contractor accept guidance from the CCCB that shall have a cost or schedule impact to this effort. In the event the CCCB identifies an out-of-scope requirement or innovation, this shall be passed to the CCCB Government lead. The Government lead will take this information and pass onto the Contracting

Officer who will coordinate with the customer and will be the only entity to approve changes to the contract scope, schedule, and cost. This system shall document metric evaluation data with analysis and solutions for project workflow and incorporate required changes to improve job performance and efficiencies on a continuing cycle.

3.2.5   Student Training Material R&M

The contractor shall revise and maintain student training materials. These materials shall include existing lessons, workbooks, and paper-based training materials (training guides, kneeboard cards). The contractor shall provide all hard and soft copies of Student Training materials, when required. The contractor shall prepare the Revisions to Existing Government Documents (Student Training Materials) IAW the CDRL.

3.2.5.1   ACTS Student Training Material R&M

The contractor shall revise and maintain ACTS student training materials in support of Fleet VP ACTC training under MPR Weapons School technical oversight and prioritization. These materials are currently limited to existing ICW Lessons, but may include other media as tactical training requirements evolve. The contractor shall, upon Government acceptance of the courseware, manifest the content IAW the most current ACTS Courseware Delivery Specification, and forward to the ACTS vendor for posting to ACTS servers/SHARP LMS. Additionally, the contractor shall provide copies of the most current versions of all source files for use in other courseware development efforts upon Government request. The contractor shall maintain software required for ACTS R&M including Kreus and VPOMS. The contractor shall provide all hard and soft copies of ACTS Student Training materials, when required. The contractor shall document the training material changes in the Student Training Materials CDRL item cited above.

3.2.6   Instructor Training Material Revision and Maintenance

The contractor shall revise and maintain Instructor Training Materials. These materials include lesson plans, test package, on-screen lessons, Compact Disk-Read Only Memory (CD-ROM), DVDs, graphics, animation, and supporting audio files. The deliverables that are computer based shall be compatible with the installed computer systems at the FRS. The contractor shall provide all hard and soft copies of Instructor Training materials, when required. The contractor shall prepare the Revisions to Existing Government Documents (Instructor Training Materials) IAW the CDRL.

3.2.6.1   FRS Curriculums Of Instruction

The contractor shall revise and maintain the COIs and MCSs for all training tracks taught by the command IAW Government directives (OPNAVINST 3500 series). Each COI and MCS shall be reviewed annually and when necessary revised to ensure the currency and accuracy of each syllabus. The contractor shall initiate the process when directed or necessary and deliver the appropriate documents to the ISD officer for submission up the approval chain of command. Quantitatively, the FRS maintains over 40 curriculums and associated schedules for the P-3, EP-3, P-8, and associated FMS and special syllabi that the command teaches.

3.2.7   ISD Working and Planning Documentation Revision and Maintenance

The contractor shall revise and maintain all Navy Maritime (P-3/P-8) training system ISD working and planning documents. The contractor shall prepare the Revisions to Existing Government Documents (Working and Planning Documentation) IAW the CDRL. Working and planning documents include:

    a. Media Selection and Syllabus Report

    b. Task Listings

    c. Job Task Listings

3.2.8   Source Material Management

The contractor shall provide all final courseware, source files, source graphics, final graphics, media, authoring files, Commercial Item software, configuration management tools, and all software and training documentation to the Government with unlimited rights (DFARS 252.227-7013/7014), or with a plan to implement the objectives over the program life cycle with less than unlimited rights provided to the Government, without royalties, recurring license or run-time fees, use tax, or similar additional payments. The contractor shall manage the instructional media and source materials used in the production of instructional media to provide for future changes and portability of the courseware. Word processing, spreadsheet, and database tapes and disks used for revising and processing all other deliverables required in this SOW shall be included in the source material. The contractor shall prepare the Instructional Media Package (Source Material) IAW the CDRL.

3.2.9   Training System Status Monitoring and Reporting

The contractor shall monitor, track, and report the status of FRS and MPRWS training systems, and production and assembly of all student and instructor material handouts. The contractor shall prepare the Revisions to Existing Government Documents (Training System Status Report (TSSR)) IAW the CDRL. The contractor shall configure, maintain, and manage all the following IT assets:

    a. Servers

    b. Network devices – switches, routers

    c. Classroom plotter/printers

    d. Classroom and Learning Center workstations

    e. Smart boards and Sympodiums

    f. Projectors

    g. Reproduction equipment (copiers)

    h. Joint Mission Planning System (or follow on systems) networking

        (1) Video brief/debrief system set-up

        (2) Student portable study devices

        (3) Fleet portable training support hardware and software

3.2.10   LRC Support

The contractor shall perform the following tasks in support of classrooms and LRCs located at NAS Jacksonville, FL (2 LRCs):

    a. The contractor shall provide a clerk to support 2000 hours per year (eight hours per day Monday to Friday), per LRC, for the creation of student/instructor accounts, resetting accounts, enrolling classes in LMS, performing basic help desk functions, collaborating with the Security Manager with classified inventory, when required perform update of manuals (i.e.: NATOPS Flight Manual (NFM), Pocket Checklists (PCL), Aircrew Pocket Checklists (APCL), Naval Technical Training Publication (NTTP), Naval Tactical Reference Publication (NTRP), etc.) and activating student tests.

    b. The contractor shall maintain a list for Government representatives on IT equipment trouble call status and timelines for resolution. Provide contractor POC for IT trouble calls, (i.e. make trouble call system/process entries for Government personnel reporting difficulties).

    c. All systems, listed in NAVAIR Clause 5252.245-9500, shall be available for Government use 24-hours a day, seven days a week. Trouble calls initiated outside support hours will be addressed starting the next support day. Otherwise, the contractor response time will begin from the moment the COR notifies of a system failure until it is resolved.

    d. Support of FRS and MPRWS classroom systems - The contractor shall provide instruction to instructors, students, and other operational squadron personnel, on the operation and utilization of all components of classroom electronic and automated data processing systems such as projectors, smart boards, and stand-alone networks, during presentation of courses and classroom lessons, training exercises, practice missions, and mission planning exercises. The contractor shall ensure the latest versions of all courseware are loaded in the designated classrooms.

    e. Support of FRS and MPRWS Learning Center and classroom system/network - The contractor shall provide instruction on equipment use and maintenance expertise for FRS and MPRWS Learning Center and classroom systems. The contractor shall be responsible for initializing Local Area Network (LAN) workstations, file servers, and training system peripherals (such as projectors, smart boards and associated workstations), where such access is not already provided via NMCI/SIPRNet. Operation of the training system shall include monitoring network operating conditions, logging staff and students into the system, recording student grades, and maintaining the student registration file. The contractor shall develop operating data to maintain courseware configuration management. As commercial and non developmental item hardware and software changes and modifications are installed, the operating data procedures shall maintain software compatibility, subject to available resource limitations.

    f. Support of FRS and MPRWS peripheral systems - The contractor shall provide instruction on equipment use and maintenance expertise for FRS and Weapons School electronic classroom and network peripheral systems that include training system operating procedures for all equipment and peripherals other than the Learning Center and classroom network. This includes other student stations, monitors, projectors, displays and interface equipment, headsets, video players, and other curriculum development stations. The operating data and maintenance support shall include such procedures and expertise required to ensure training systems are operating properly. The contractor shall maintain an inventory of all supported hardware.

3.2.10.1 <u>LMS/CBT Server Support</u>

The contractor shall provide support of the LMS/CBT servers and LRC performing the following functions:

a.   Install, troubleshoot, and modify all courseware for IMI and Computer Managed Instruction (CMI) systems and database problems.

b.   Manage and maintain the classified download log and submit monthly download reports to the VP-30 IA Manager (IAM) via the MPRWS.

c.   Maintain the operating system, security updates, system configuration, printer drivers, anti-virus, and anti-spyware.

d.   Maintain backup of data and configuration of each server.

e.   Maintain the LRC to handle student LMS administration, other LMS issues, and instructor support.

f.   Provide troubleshooting and maintenance of IT assets. Contractor support of Learning Center and classroom hardware includes replacement of failed individual electronic components.

g.   Maintain reproduction supplies (e.g. copy paper, binder combs, and binder machine), administrative supplies (e.g. dry erase markers and writing paper), and ink cartridges for all printers and plotters that support the Learning Center.

3.2.10.2   Equipment/Courseware Availability

The contractor shall maintain the following Equipment/Courseware availability during supported hours:

a.   99 percent for LMS, server, and courseware availability to classrooms and LRCs. (All locally supported Training Management System (TMS) courseware must be available. Failure to provide a portion of the courseware on one TMS but not another constitutes unavailable time).

b.   97 percent for electronic classroom instructor workstations and projectors and all equipment necessary to project/display the course material (i.e. switch boxes, Keyboard, Video, and Mouse (KVM) switches, etc).

c.   90 percent for student workstations in classrooms and LRCs, electronic white boards, and supported printers.

d.   Reserve Weekends - The contractor shall leave equipment powered in an available state for two weekends a month, if required, and when identified by the COR.

3.2.10.3   Sustainment Services

The contractor shall perform specialized services to support the training system. Training system support services, for one or more training sites, include the following:

a.   Performing scheduled and unscheduled preventive maintenance on the training delivery system, development system, classroom, and LRC hardware.

b.   Maintaining the delivery system hardware

c.   Removing and replacing delivery system components

d.   Monitoring delivery system usage

e.   Troubleshooting delivery system performance issues

f.   Procuring, installing, and integrating delivery system upgrades

g.   Tracking changes to training system software applications caused by modifications to the Navy approved software application list known as DADMS

h.   Preparing DADMS requests for Government approved software applications

    i.   Recommending upgrades to delivery system software applications

    j.   Recommending software upgrades for production of training content changes

    k.   Maintaining the LMS/training management system

    l.   Recommending software and hardware capabilities to increase training system efficiency and effectiveness

    m. Presenting training to managers, administrators, staff, instructors, and/or students on how to use the learning, training, or content management system

    n.   Performing as a LRC facilitator

    o.   Responding to emergency trouble calls for delivery system failure during scheduled classes and events

    p.   Providing help desk support for remote students, instructors, and staff

    q.   Preparing, packaging, and installing training systems, and training system components, delivered to remote training sites

3.2.11   Data Backup and Recovery

The contractor shall follow and implement the Government plan for data backup and recovery. This plan shall include the following:

    a.   Learning Centers

        (1)   Weekly full backup to tape

        (2)   Incremental back-up to tape on remaining work days

        (3)   Tape backups in four-week rotation

    b.   Database Server

        (1)   Initial back-up to disk, with that backup captured daily on tape (full backup daily with hourly transaction log backup during normal training hours)

    c.   Off-site storage

        (1)   Fireproof containers with appropriate classification protection, IAW DODI 8510.01.

    d.   Production Center

        (1)   Weekly full backup to tape

        (2)   Incremental back-up to tape on remaining work days

        (3)   Tape backups in four-week rotation

        (4)   Monthly tape backup of critical lesson files in a one year rotation

        (5)   Annual archive of critical lesson files to Universal Serial Bus (USB) hard drive in two year rotation

    e.   Production Database Servers

        (1)   Initial back-up to disk, with that backup captured daily on tape (full backup daily with hourly transaction log backup during normal training hours)

    f.   Resources in place

    g.   Future Backup and Recovery

        (1)   Command Naval Air Forces Pacific/Atlantic (CNAP/L) are in the process of obtaining DIACAP certification for the Learning Centers and Electronic Classrooms. The

contractor shall comply with DODI 8510.01 required backup and recovery procedures once they are submitted to and approved by Naval Network Warfare Command (NETWARCOM).

3.2.12   Mobilization and Transition Phases

3.2.12.1   Mobilization Phase Requirements

The Mobilization Phase for this contract is defined as the 60-day period prior to the Contract Start Date (CSD) as defined in the contract. During the Mobilization Phase, the incoming contractor shall cooperate with the Government and all authorized Government contractors in activities to prepare for a smooth transition from the preceding contract or delivery order. During this period, the incoming contractor shall:

   a.   Complete security clearances for contractor personnel.
   b.   Inventory GFM/GFI.
   c.   Become familiar with all GFM/GFI, current media inventory, training materials, source codes, and other items listed in the current TSSR.
   d.   Observe performance (over-the-shoulder) of all R&M tasks on a not-to-interfere basis.
   e.   Perform other Mobilization tasks as necessary in preparation for assumption of full R&M responsibilities starting on the date specified in the contract.

3.2.12.2   Transition Phase Requirements

The Transition Phase for this contract is defined as the 60-day period prior to the end of the base period or option period, should the Government choose not to exercise the subsequent option, or the 60-day period prior to contract end, should the Government exercise all options. During the Transition Phase, the incumbent contractor shall cooperate with the Government and the incoming contractor in activities to prepare for a smooth transition to the subsequent contract or delivery order. The incumbent contractor shall allow observance of the performance (over-the-shoulder) of all R&M tasks as an On-The-Job Training (OJT) function on a not-to-interfere basis throughout the Transition Phase.

Appendix A

Relevant Acronyms and Abbreviations

Acronym	Definition
AAW	Acoustic Aviation Warfare (specialist)
AC	Aircraft
ACOR	Assistant Contracting Officer's Representative
ACTC	Air Combat Training Continuum
ACTS	Air Combat Training System
ADL	Advanced Distributed Learning
AIMS	Advanced Integrated Multi-sensor Surveillance
AIP	ASUW Improvement Program (Aircraft upgrade)
ALIT	Acoustic Line Integration Trainer
AMT	Airborne Maintenance Technician
ANSI	American National Standards Institute
AOG	Aircraft On Ground
APCL	Aircrew Pocket Checklists
ARP	Advance Readiness Program
ASUW	Anti-Surface Warfare
ASW	Anti-Submarine Warfare
AT	Acoustic Trainer
AVET	Aircrew Virtual Environment Trainer
BMUP	Block-Mod Update Program (Aircraft upgrade)
C4ASW	Command, Control, Communications, and Computers Anti-Submarine Warfare
CAC	Common Access Card
CAI	Computer Aided Instruction
CAMA	Computer Assisted Mission Analysis
CAS	Collaboration At Sea
CAS-S	Collaboration At Sea – Secure
CAT	Category
CAT 1	Category 1 – newly designated aviator or aircrew
CAT 2	Category 2 – aviator or aircrew transitioning to new T/M/S aircraft
CAT 3	Category 3 – refresher training for aviator or aircrew who has been out of the aircraft for more than 18 months
CAT 4	Category 4 – special syllabus
CAT 5	Category 5 – Pre and Post Command Training (for PXO & PCO aviators or NFOs)
CBT	Computer Based Training
CBTS	Computer Based Training System
CCCB	Courseware Configuration Control Board

Appendix A

Acronym	Definition
CD	Compact Disk
CDNU	Control Display Navigation Unit
CDRL	Contract Data Requirements List
CD-ROM	Compact Disk-Read Only Memory
CLAN	Classified Local Area Network
CMC	Command Master Chief
CNAF	Commander Naval Air Forces – COMNAVAIRFOR
CNAL	Commander Naval Air Forces Atlantic – COMNAVAIRLANT
CNAP/L	Command Naval Air Forces Pacific/Atlantic
CNATRA	Chief of Naval Air Training
CNO	Chief of Naval Operations
CNS-ATM	Communication Navigation Surveillance-Air Traffic Management
CO	Commanding Officer
COI	Curriculum Of Instruction
CONUS	Continental United States
COR	Contracting Officer's Representative
COTAC	Co-Tactical Coordinator
CPAR	Contractor Performance Assessment Report
CPARS	Contractor Performance Assessment Reporting System
CPRW	Commander Patrol Reconnaissance Wing
CPSMR	Contractor's Progress, Status, and Management Reports
CPT	Cockpit Procedures Trainer
CPU	Central Processing Unit
CR	Change Request
CRM	Crew Resource Management
CRT	Critique
CSD	Contract Start Date
CTT	Counter Threat Training
CWLCS	Conventional Weapons Loading Courses
CWTPI	Conventional Weapons Technical Proficiency Inspections
DADMS	Department of the Navy Application and Database Management System
DAPS	Defense Automated Printing Service
DDL	Delegation of Disclosure Letter
DFARS	Defense Federal Acquisition Regulations Supplement
DH	Department Head
DIACAP	DoD Information Assurance Certification and Accreditation Process
DIRLAUTH	Direct Liaison Authorized
DOD	Department of Defense
DODI	Department of Defense Information

Appendix A

Acronym	Definition
DOMS	Distributed Online Management System
DON	Department of the Navy
DS	Device Session
DTTT	Desk Top Tactical navigation (TACNAV) Trainer
DVD	Digital Video Disk
ECP	Engineering Change Proposal
EDSPEC	Education Specialist
ESEI	Enhanced Specific Emitter Identification
ETJ	Electronic Training Jacket
EWO	Electronic Warfare Operator
FE	Flight Engineer
FFB	Fleet Feedback
FIG	Flight Instructor Guide
FIT	Fleet Introduction Team
FIUT	Fleet Instructor Under Training
FL	Florida
FLT	Fleet
FMC	Flight Management Computer
FMS	Foreign Military Sales (Student)
FMSLRC	Foreign Military Sales (Student) Learning Resource Center
FOUO	For Official Use Only
FRS	Fleet Replacement Squadron
FUND	Fundamental
GB	Grade Book
GFE	Government Furnished Equipment
GFI	Government Furnished Information
GFM	Government Furnished Material
GFP	Government Furnished Property
HPD	Hours Per Day
HPW	Hours Per Week
HTML	Hyper Text Markup Language
IA	Information Assurance
IAS	Information Assurance Sustainment
IAT	Information Assurance Technician
IAW	In Accordance With
ICW	Interactive Courseware
IEEE	Institute of Electrical and Electronics Engineers
IFT	In-Flight Technician
IGR	Instructor Guided Review
IGRE	Instructor Guided Review Examination
ILCBT	Instructor-led Computer Based Training

Appendix A

Acronym	Definition
IMAT	Instructor Mediated Acoustic Training
IMI	Interactive Multimedia Instruction
IML	Instructor Mediated Lecture or Instructional Materials Library
IPR	In-Process Reviews
IPT	Integrated Product Team
ISD	Instructional Systems Development
ISS	Instructions Systems Specialist
IT	Information Technology
ITC	Integrated Training Center
IUT	Instructor Under Training
JA	Job Aid
JMPS	Joint Mission Planning System
JTDI	Joint Technical Data Integration
KVM	Keyboard, Video, and Mouse
LAB	Laboratory
LAN	Local Area Network
LDA	Last Date Allowed
LEC	Lecture
LMS	Leaning Management System
LO	Learning Objective
LRC	Learning Resource Center
MAC	Mission Assurance Category
MCS	Master Course Schedule
MIL	Mediated Interactive Lectures
MO	Maintenance Officer
MOB	Mobilization
MOPAS	Management Oversight Performances of the Acquisition of Services
MPR	Maritime Patrol Reconnaissance
MPRIC	Maritime Patrol and Reconnaissance Intelligence Course
MPRWS	Maritime Patrol Reconnaissance Weapons School
MPS	Mission Planning Scenario
MST	Mission Systems Trainer
NAAW	Non-Acoustic Aviation Warfare (specialist)
NAS	Naval Air Station
NATIP	Naval Aviation Technical Information Product
NATOPS	Naval Air Training and Operating Procedures Standardization
NAV/COMM	Navigator Communicator
NAVAIR	Naval Air Systems Command – NAVAIRSYSCOM
NAWCTSD	Naval Air Warfare Center Training Systems Division
NETWARCOM	Naval Network Warfare Command

Appendix A

Acronym	Definition
NFM	NATOPS Flight Manual
NFO	Naval Flight Officer
NIPR	Non-Classified Internet Protocol Router
NIPRNET	Non-Classified Internet Protocol Router Network
NKO	Navy Knowledge Online
NMCI	Navy-Marine Corps Intranet
NTE	Not To Exceed
NTRP	Naval Tactical Reference Publication
NTTP	Naval Technical Training Publication
OASIS	Over-the-horizon Airborne Sensor Information System
OBS	Observer
OFT	Operational Flight Trainer
OJT	On the Job Training
OPNAV	Chief of Naval Operations – CNO
OPNAVINST	Chief of Naval Operations Instruction
OPSO	Operations Officer
ORE	Operational Readiness Evaluation
OS	Operating System
P-3QS	P-3 Qualification Standards
P-8QS	P-8 Qualification Standards
PC	Personal Computer
PCL	Pocket Checklists
PCO	Program Contracting Officer or Perspective Commanding Officer
PDT	Pre-Deployment Training
PJM	Project Manager
PKI	Public Key Infrastructure
PM	Program Manager
POC	Point of Contact
PPR	Program Progress Report
PPT	Power Point Training
PQS	Personnel Qualification Standards
PTT	Partial Task Trainer
PXO	Perspective Executive Officer
QASP	Quality Assurance Surveillance Plan
QCP	Quality Control Plan
QS	Qualification Syllabus
R&M	Revision and Maintenance
SAAR	System Authorization Access Request
SATT	Squadron Advanced Tactical Training
SCORM	Shareable Content Object Reference Model
SG	Student Guide

Appendix A

Acronym	Definition
SHARP	"Sierra Hotel" Aviation Readiness Program
SIM	Simulator
SIPR	Secure Internet Protocol Router
SIPRNET	Secure Internet Protocol Router Network
SM	Site Manager
SME	Subject Matter Expert
SNFO	Student Naval Flight Officer
SOT	Sensor Operator Training
SOW	Statement Of Work
SQDN	Squadron
SQL	Structured Query Language
SUPO	Supply Officer
SWFI	Secret When Filled In
T/M/S	Type/Model/Series
TACCO	Tactical Coordinator
TACMAN	Tactical Manual
TACMEMO	Tactical Memorandum
TACT	Tactical Aircrew Trainer
TCSD	Training Conduct Support Document
TD	Training Director
TDPC	Training Data Products Contract
TELCON	Telephone Conversation
TMS	Training Management System or Tactical Mission Software
TMWP	Technical and Management Work Plan
TO	Training Officer
TOFT	Tactical Operational Flight Trainer
TOMS	Tactical Operational Mission Software
TORT	Tactical Operational Trainer
TPOC	Technical Point Of Contact
TRAWING	Training Wing
TSSR	Training System Status Report
TST	Test
TUG	Tactics Upgrade
UIC	Unit Identification Code
UIII	Update Three (Aircraft upgrade)
ULAN	Unclassified Local Area Network
UMFO	Undergraduate Maritime Flight Officer
UNODIR	Unless Otherwise Directed
USB	Universal Serial Bus
USN	United States Navy
VP	Fixed Wing Patrol

Appendix A

Acronym	Definition
VQ	Fixed Wing Reconnaissance
WB	Workbook; Total pages contained in the workbooks
WEB	Internet
WEBINAR	WEB Seminar
WRT	With Reference To
WSLRC	Weapons School Learning Resource Center
WST	Weapons Systems Trainer
WTI	Weapons Tactics Instructor
WTT	Weapons Tactics Trainer
XML	Extensible Markup Language
XO	Executive Officer

Appendix B

P-3/P-8 R&M Supported Publications

TABLE B-I.   P-3 R&M Supported Publications

Publication	Pages
Flight Station Job Aid – aka "Blue Brains"	84
Pilot Job Aid	341
CAT 1 Pilot STUDENT GUIDE (FAM)	325
CAT 1 Pilot Non-ASW STUDENT GUIDE (FAM)	280
CAT 1 Pilot SWFI STUDENT GUIDE (TACTICS)	134
CAT 3 Pilot STUDENT GUIDE (FAM)	224
CAT 3 Pilot Non-ASW STUDENT GUIDE (FAM)	231
Pilot IUT Handbooks	221
CAT 3 Pilot SWFI STUDENT GUIDE (TACTICS)	118
FE Job Aid	300
FE Prep/ Pre Phase Student Guide	258
CAT 1 FE Student Guide	310
CAT 1 FE Grade Sheet	196
CAT 3 FE Student Guide	120
FE Ground Turn Operator Student Guide	108
FE IUT Handout / Grade Book	86
IFT STUDENT GUIDE PART 1	471
IFT STUDENT GUIDE PART 2	340
IFT Device Session GRADE BOOK	145
IFT IUT Handbook	67
CAT 1 AAW USQ 78B STUDENT GUIDE	255
CAT 1 AAW USQ 78B GRADE BOOK	156
CAT 3 AAW USQ 78B GRADE BOOK	84
AAW SWFI WST Briefing Book	218
CAT 1 (SECRET) USQ 78B Work Book	102
SS1 CHECKLIST	59
AAW IUT Handbook	69
CAT 1 NAAW STUDENT GUIDE	216
CAT 1 NAAW GRADE BOOK	258
CAT 3 NAAW STUDENT GUIDE	128
CAT 3 NAAW GRADE BOOK	76
SS3 Checklist	86
NAAW SWFI SBB	81

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TABLE B-I. <u>P-3 R&M Supported Publications</u>

Publication	Pages
OBS Checklist	85
OBS Student Guide	239
OBS Grade Book	84
CAT1 NFO FUND Student Guide	146
CAT1 NFO FUND Grade Book	24
NFO Mission Checklist	115
NFO Handbook	176
CIP CDNU COMM. PROC Job Aid	204
NAV LOGS (BLANK) 11 X 17	2
CAT 1 VP NFO STUDENT GUIDE	194
CAT 1 VP NFO GRADE BOOK	100
CAT 1 NFO Transition VQ/ VPU STUDENT GUIDE/GRADE BOOK	150
CAT 2/3 VPU NFO STUDENT GUIDE & GRADE BOOK	111
CAT 2/3 VQ NFO STUDENT GUIDE & GRADE BOOK	85
CAT 3 NFO Student Guide	191
CAT 3 NFO Grade Book	77
VQ CAT 3 NFO SWFI STUDENT GUIDE	32
CAT 1 & 3 NFO SWFI STUDENT GUIDE	257
NAVCOMM SWFI Log Book	53
VQ NFO Mission Checklist	90
NFO IUT Syllabus Guide	47
TACCO Instructor Guide	103
Instructor TACCO Checklist	8
Pocket P-3 Flight Instructor Guide	103
N-PFPS Mission Planning Guide	68
AGM-65 Maverick Job Aid	18
AN/ARN-151 GPS Job Aid	123
AIMS Job Aid	46
AIR ASW Oceanography	131
SWFI Classified Notebook	40
P-3 Aircraft Tour	51
AIP Circuit Breaker Book	140
UDIII Circuit Breaker Book	122
BMUP Circuit Breaker Book	82

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TABLE B-I.   P-3 R&M Supported Publications

Publication	Pages
EP-3E Circuit Breaker Book	133
CNS/ATM Job Aid	69
Lesson/ Event Critique Sheets	204
PILOT P-3QS (P-3 QUALIFICATION STANDARDS)	423
NFO P-3QS (P-3 QUALIFICATION STANDARDS)	313
FE P-3QS (P-3 QUALIFICATION STANDARDS)	199
AAW P-3QS (P-3 QUALIFICATION STANDARDS)	170
NAAW P-3QS (P-3 QUALIFICATION STANDARDS)	167
IFT P-3QS (P-3 QUALIFICATION STANDARDS)	161
FMS CAT 1 NFO STUDENT GUIDE	125
FMS CAT 1 NFO GRADE BOOK	80
FMS SWFI NAVCOMM Logs	53
FMS SWFI Notebook	40
Total Publications – 80 **Total Pages**	**11781**

TABLE B-II.   P-8 R&M Supported Publications

Publication	Pages
Flight Instructor Guide (FIG)	91
In flight Job Aid (Blue Brains)	80
Pilot Cat 1 Student Guide	378
Pilot Cat 2 Department Head Student Guide	412
Pilot Cat 2 Squadron Transition Student Guide	416
Pilot Training Manual Job Aid	221
NFO Cat 1 Student Guide	371
NFO Cat 2 Squadron Transition Student Guide	490
NFO Cat 3 Department Head Student Guide	400
AAW Cat 1 Volume 1 Student Guide	396
AAW Cat 1 Volume 2 Student Guide	438
AAW Cat 2 Volume 1 Student Guide	370
AAW Cat 2 Volume 2 Student Guide	412
EWO Cat 1 Volume 1 Student Guide	482
EWO Cat 1 Volume 2 Student Guide	396
EWO Cat 2 Volume 1 Student Guide	442
EWO Cat 2 Volume 2 Student Guide	426

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TABLE B-II.   <u>P-8 R&M Supported Publications</u>

Publication	Pages
AMT Cat 1 Student Guide	300
AMT Cat 2 Student Guide	300
Pilot P-8QS (P-8 Qualification Standards)	425
NFO P-8QS (P-8 Qualification Standards)	325
AAW P-8QS (P-8 Qualification Standards)	200
EWO P-8QS (P-8 Qualification Standards)	175
AMT P-8QS (P-8 Qualification Standards)	175
Total Publications – 24 **Total Pages**	**8121**